1)Create table EMPLOYEE with the following details.

mysql> create table employee(employee\_id int(6),last\_name varchar(25),job\_id varchar(10),salary double(8,2),comm\_pct double(4,2),mgr\_id int(6),department\_id int(4));

ERROR 1050 (42S01): Table 'employee' already exists

mysql> desc employee;

+---------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------------+-------------+------+-----+---------+-------+

| employee\_id | int | YES | | NULL | |

| last\_name | varchar(25) | YES | | NULL | |

| job\_id | varchar(10) | YES | | NULL | |

| salary | double(8,2) | YES | | NULL | |

| comm\_pct | double(4,2) | YES | | NULL | |

| mgr\_id | int | YES | | NULL | |

| department\_id | int | YES | | NULL | |

+---------------+-------------+------+-----+---------+-------+

7 rows in set (0.01 sec)

2) . Insert the following data into EMPLOYEE table.

mysql> insert into employee values(199 ,'Grant ','SH\_CLERK' ,2600, 2.2 ,124 ,50),(200 ,'Whalen ','AD\_ASST', 4400, 1.3 ,101 ,10),(201,' Hartstein','IT\_PROG ',6000 ,null ,100 ,20),(202 ,'Fay' ,'AC\_MGR ',6500 ,null ,210 ,20),(203 ,'Mavris', 'AD\_VP' ,7500, null, 101 ,40),(204 ,'Baer',' AD\_PRES', 3500 ,1.5 ,101 ,90),(205 ,'Higgins',' AC\_MGR ',2300 ,null ,101 ,60),(206 ,'Gitz',' IT\_PROG' ,5000 ,null ,103 ,60),(100 ,'King' ,'AD\_ASST' ,8956 ,0.3 ,108 ,100),(101,' Kochar' ,'SH\_CLERK' ,3400 ,1.3, 118 ,30);

Query OK, 10 rows affected (0.01 sec)

Records: 10 Duplicates: 0 Warnings: 0

mysql> select \* from employee;

mysql> select \* from employee;

+-------------+------------+----------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+------------+----------+---------+----------+--------+---------------+

| 198 | connel | sh\_clerk | 2600.00 | 2.50 | 124 | 50 |

| 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 |

| 200 | Whalen | AD\_ASST | 4400.00 | 1.30 | 101 | 10 |

| 201 | Hartstein | IT\_PROG | 6000.00 | NULL | 100 | 20 |

| 202 | Fay | AC\_MGR | 6500.00 | NULL | 210 | 20 |

| 203 | Mavris | AD\_VP | 7500.00 | NULL | 101 | 40 |

| 204 | Baer | AD\_PRES | 3500.00 | 1.50 | 101 | 90 |

| 205 | Higgins | AC\_MGR | 2300.00 | NULL | 101 | 60 |

| 206 | Gitz | IT\_PROG | 5000.00 | NULL | 103 | 60 |

| 100 | King | AD\_ASST | 8956.00 | 0.30 | 108 | 100 |

| 101 | Kochar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 |

+-------------+------------+----------+---------+----------+--------+---------------+

11 rows in set (0.00 sec)

3. Display last\_name, job\_id, employee\_id for each employee with employee\_id appearing first.

mysql> select employee\_id,last\_name,job\_id from employee order by employee\_id;

+-------------+------------+----------+

| employee\_id | last\_name | job\_id |

+-------------+------------+----------+

| 100 | King | AD\_ASST |

| 101 | Kochar | SH\_CLERK |

| 198 | connel | sh\_clerk |

| 199 | Grant | SH\_CLERK |

| 200 | Whalen | AD\_ASST |

| 201 | Hartstein | IT\_PROG |

| 202 | Fay | AC\_MGR |

| 203 | Mavris | AD\_VP |

| 204 | Baer | AD\_PRES |

| 205 | Higgins | AC\_MGR |

| 206 | Gitz | IT\_PROG |

+-------------+------------+----------+

11 rows in set (0.01 sec)

4) Display the details of all employees of department 60.

mysql> select \* from employee where department\_id=60;

+-------------+-----------+----------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+----------+---------+----------+--------+---------------+

| 205 | Higgins | AC\_MGR | 2300.00 | NULL | 101 | 60 |

| 206 | Gitz | IT\_PROG | 5000.00 | NULL | 103 | 60 |

+-------------+-----------+----------+---------+----------+--------+---------------+

2 rows in set (0.01 sec)

5. Display the employee details of the employee who’s last\_name is King.

mysql> select \* from employee where last\_name='king';

+-------------+-----------+---------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+---------+---------+----------+--------+---------------+

| 100 | King | AD\_ASST | 8956.00 | 0.30 | 108 | 100 |

+-------------+-----------+---------+---------+----------+--------+---------------+

1 row in set (0.01 sec)

6)Display unique job\_id from EMPLOYEE table. Give alias name to the column as JOB\_TITLE.

mysql> select job\_id as job\_title from employee;

+-----------+

| job\_title |

+-----------+

| sh\_clerk |

| SH\_CLERK |

| AD\_ASST |

| IT\_PROG |

| AC\_MGR |

| AD\_VP |

| AD\_PRES |

| AC\_MGR |

| IT\_PROG |

| AD\_ASST |

| SH\_CLERK |

+-----------+

11 rows in set (0.00 sec)

7)Display last\_name, salary and salary increase of Rs300. Give the new column name as ‘Increased Salary’

mysql> select last\_name,salary,(salary+300) as increased\_salary from employee;

+------------+---------+------------------+

| last\_name | salary | increased\_salary |

+------------+---------+------------------+

| connel | 2600.00 | 2900.00 |

| Grant | 2600.00 | 2900.00 |

| Whalen | 4400.00 | 4700.00 |

| Hartstein | 6000.00 | 6300.00 |

| Fay | 6500.00 | 6800.00 |

| Mavris | 7500.00 | 7800.00 |

| Baer | 3500.00 | 3800.00 |

| Higgins | 2300.00 | 2600.00 |

| Gitz | 5000.00 | 5300.00 |

| King | 8956.00 | 9256.00 |

| Kochar | 3400.00 | 3700.00 |

+------------+---------+------------------+

11 rows in set (0.01 sec)

8. Display last\_name, salary and annual compensation of all employees, plus a onetime bonus of Rs 100. Give an alias name to the column displaying annual compensation.

mysql> select last\_name,salary,(salary\*12)+12 as 'annual compensation' from employee;

+------------+---------+---------------------+

| last\_name | salary | annual compensation |

+------------+---------+---------------------+

| connel | 2600.00 | 31212.00 |

| Grant | 2600.00 | 31212.00 |

| Whalen | 4400.00 | 52812.00 |

| Hartstein | 6000.00 | 72012.00 |

| Fay | 6500.00 | 78012.00 |

| Mavris | 7500.00 | 90012.00 |

| Baer | 3500.00 | 42012.00 |

| Higgins | 2300.00 | 27612.00 |

| Gitz | 5000.00 | 60012.00 |

| King | 8956.00 | 107484.00 |

| Kochar | 3400.00 | 40812.00 |

+------------+---------+---------------------+

11 rows in set (0.00 sec)

9. Display the details of those employees who get commission.

mysql> select \* from employee where comm\_pct is not null;

+-------------+-----------+----------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+----------+---------+----------+--------+---------------+

| 198 | connel | sh\_clerk | 2600.00 | 2.50 | 124 | 50 |

| 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 |

| 200 | Whalen | AD\_ASST | 4400.00 | 1.30 | 101 | 10 |

| 204 | Baer | AD\_PRES | 3500.00 | 1.50 | 101 | 90 |

| 100 | King | AD\_ASST | 8956.00 | 0.30 | 108 | 100 |

| 101 | Kochar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 |

+-------------+-----------+----------+---------+----------+--------+---------------+

6 rows in set (0.00 sec)

10.Display the details of those employees who do not get commission.

mysql> select \* from employee where comm\_pct is null;

+-------------+------------+----------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+------------+----------+---------+----------+--------+---------------+

| 201 | Hartstein | IT\_PROG | 6000.00 | NULL | 100 | 20 |

| 202 | Fay | AC\_MGR | 6500.00 | NULL | 210 | 20 |

| 203 | Mavris | AD\_VP | 7500.00 | NULL | 101 | 40 |

| 205 | Higgins | AC\_MGR | 2300.00 | NULL | 101 | 60 |

| 206 | Gitz | IT\_PROG | 5000.00 | NULL | 103 | 60 |

+-------------+------------+----------+---------+----------+--------+---------------+

5 rows in set (0.00 sec)

11.Display the Employee\_id, Department\_id and Salary all employees whose salary is greater than 5000.

ere salary>5000' at line 4

mysql> select employee\_id,department\_id,salary from employee where salary>5000;

+-------------+---------------+---------+

| employee\_id | department\_id | salary |

+-------------+---------------+---------+

| 201 | 20 | 6000.00 |

| 202 | 20 | 6500.00 |

| 203 | 40 | 7500.00 |

| 100 | 100 | 8956.00 |

+-------------+---------------+---------+

4 rows in set (0.01 sec)

12.Display the Last\_Name and Salary of all employees whose salary is between 4000 and 7000.

mysql> select last\_name,salary from employee where salary between 4000 and 7000;

+------------+---------+

| last\_name | salary |

+------------+---------+

| Whalen | 4400.00 |

| Hartstein | 6000.00 |

| Fay | 6500.00 |

| Gitz | 5000.00 |

+------------+---------+

4 rows in set (0.00 sec)

13.Display the details of all employees whose salary is either 6000 or 6500 or 7000.

mysql> select \* from employee where salary in(6000,6500,7000);

+-------------+------------+----------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+------------+----------+---------+----------+--------+---------------+

| 201 | Hartstein | IT\_PROG | 6000.00 | NULL | 100 | 20 |

| 202 | Fay | AC\_MGR | 6500.00 | NULL | 210 | 20 |

+-------------+------------+----------+---------+----------+--------+---------------+

2 rows in set (0.00 sec)

14.Display the details of all those employees who work either in department 10 or 20 or 30 or 50.

mysql> select \* from employee where department\_id=10 OR 20 OR 30 OR 50;

+-------------+------------+----------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+------------+----------+---------+----------+--------+---------------+

| 198 | connel | sh\_clerk | 2600.00 | 2.50 | 124 | 50 |

| 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 |

| 200 | Whalen | AD\_ASST | 4400.00 | 1.30 | 101 | 10 |

| 201 | Hartstein | IT\_PROG | 6000.00 | NULL | 100 | 20 |

| 202 | Fay | AC\_MGR | 6500.00 | NULL | 210 | 20 |

| 203 | Mavris | AD\_VP | 7500.00 | NULL | 101 | 40 |

| 204 | Baer | AD\_PRES | 3500.00 | 1.50 | 101 | 90 |

| 205 | Higgins | AC\_MGR | 2300.00 | NULL | 101 | 60 |

| 206 | Gitz | IT\_PROG | 5000.00 | NULL | 103 | 60 |

| 100 | King | AD\_ASST | 8956.00 | 0.30 | 108 | 100 |

| 101 | Kochar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 |

+-------------+------------+----------+---------+----------+--------+---------------+

11 rows in set (0.00 sec)

15.Display the details of all employees whose salary is not equal to 5000.

mysql> select \* from employee where NOt salary=5000;

+-------------+------------+----------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+------------+----------+---------+----------+--------+---------------+

| 198 | connel | sh\_clerk | 2600.00 | 2.50 | 124 | 50 |

| 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 |

| 200 | Whalen | AD\_ASST | 4400.00 | 1.30 | 101 | 10 |

| 201 | Hartstein | IT\_PROG | 6000.00 | NULL | 100 | 20 |

| 202 | Fay | AC\_MGR | 6500.00 | NULL | 210 | 20 |

| 203 | Mavris | AD\_VP | 7500.00 | NULL | 101 | 40 |

| 204 | Baer | AD\_PRES | 3500.00 | 1.50 | 101 | 90 |

| 205 | Higgins | AC\_MGR | 2300.00 | NULL | 101 | 60 |

| 100 | King | AD\_ASST | 8956.00 | 0.30 | 108 | 100 |

| 101 | Kochar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 |

+-------------+------------+----------+---------+----------+--------+---------------+

10 rows in set (0.00 sec)

16.Display the details of all the CLERKS working in the organization.

Grade\_A. Display the table EMPLOYEE after updating.

mysql> select \* from employee where job\_id='sh\_clerk';

+-------------+-----------+----------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+----------+---------+----------+--------+---------------+

| 198 | connel | sh\_clerk | 2600.00 | 2.50 | 124 | 50 |

| 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 |

| 101 | Kochar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 |

+-------------+-----------+----------+---------+----------+--------+---------------+

3 rows in set (0.00 sec)

17.Update the job\_id’s of the employees who earn more than 5000 to Grade\_A. Display the table EMPLOYEE after updating.

mysql> select job\_id as 'Grade\_A' from employee where salary>5000;

+----------+

| Grade\_A |

+----------+

| IT\_PROG |

| AC\_MGR |

| AD\_VP |

| AD\_ASST |

+----------+

4 rows in set (0.00 sec)

18.Display the details of all those employees who are either CLERK or PROGRAMMER or ASSISTANT.

mysql> select \* from employee where job\_id='sh\_clerk' OR 'it\_prog' OR 'Ad\_asst';

+-------------+-----------+----------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+----------+---------+----------+--------+---------------+

| 198 | connel | sh\_clerk | 2600.00 | 2.50 | 124 | 50 |

| 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 |

| 101 | Kochar | SH\_CLERK | 3400.00 | 1.30 | 118 | 30 |

+-------------+-----------+----------+---------+----------+--------+---------------+

3 rows in set, 2 warnings (0.00 sec)

19.Display those employees from the EMPLOYEE table whose designation is CLERK and salary is less than 3000.

mysql> select \* from employee where job\_id='sh\_clerk' AND salary<3000;

+-------------+-----------+----------+---------+----------+--------+---------------+

| employee\_id | last\_name | job\_id | salary | comm\_pct | mgr\_id | department\_id |

+-------------+-----------+----------+---------+----------+--------+---------------+

| 198 | connel | sh\_clerk | 2600.00 | 2.50 | 124 | 50 |

| 199 | Grant | SH\_CLERK | 2600.00 | 2.20 | 124 | 50 |

+-------------+-----------+----------+---------+----------+--------+---------------+

2 rows in set (0.00 sec)

20.Display those employees Last\_Name, Mgr\_id from the EMPLOYEE table

whose salary is above 3000 and work under Manager 101.

mysql> select last\_name,mgr\_id from employee where salary>3000 and mgr\_id=101;

+-----------+--------+

| last\_name | mgr\_id |

+-----------+--------+

| Whalen | 101 |

| Mavris | 101 |

| Baer | 101 |

+-----------+--------+

3 rows in set (0.00 sec)